



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory

Environmental Services Branch
10625 Fallstone Road, Houston, TX 77099
Phone: (281)983-2100 Fax: (281)983-2248

Final Analytical Report

Site Name -----Oil Trust Fund

Sample Collection Date(s)-- 09/14/10

Contact----- Rich Mayer (6PD-F)

Report Date-----09/23/10

Project #----- 10REG276

Work Order(s)-----1009034

Analyses included in this report:

LC DOSS

Report Narrative

Work orders 1009030 and 1009034 shared the same quality control samples.

DOSS was not found at or above the reporting limit for samples in work order 1009034.

Note--DOSS was not found at or above the 10ug/L (ppb) level of interest

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:

Richard McMillin
Region 6 Laboratory Manager

David Neleigh
Region 6 Laboratory Branch Chief



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road
Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Oil Trust Fund

Project Number: 10REG276

Data Management Coordinator: Christy Warren

Data Management Coordinator Signature

Date

Date Transmitted: ____/____/____

Please have the U.S. EPA Project Manager/Officer call the Data Management Coordinator at 3-2137 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Christy Warren
Data Management Coordinator
Region 6 Laboratory
6MD-HS

Received by and Date

Comments:

The laboratory routinely disposes of samples 90 days after all analyses have been completed. If you have a need to hold these samples in custody longer than 90 days, please sign below.

Signature

Date

Please provide a reason for holding:



Environmental Protection Agency
Region 6 Laboratory

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Phone:(281)983-2100 Fax:(281)983-2248

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
T008-R603-100914-SW-09-1	1009034-01	Liquid	9/14/10 11:00	09/15/10 09:40
T008-R603-100914-SW-17-1	1009034-02	Liquid	9/14/10 10:29	09/15/10 09:40
T008-R604-100914-SW-11-1	1009034-03	Liquid	9/14/10 11:48	09/15/10 09:40
T008-R604-100914-SW-21-1	1009034-04	Liquid	9/14/10 11:48	09/15/10 09:40
T008-R607-100914-SW-12-1	1009034-05	Liquid	9/14/10 15:10	09/15/10 09:40
T008-R607-100914-SW-24-1	1009034-06	Liquid	9/14/10 14:48	09/15/10 09:40
T001-1462-100914-SW-08-1	1009034-07	Liquid	9/14/10 8:25	09/15/10 09:40
T001-1462-100914-SW-14-1	1009034-08	Liquid	9/14/10 8:00	09/15/10 09:40
T001-1466-100914-SW-08-1	1009034-09	Liquid	9/14/10 9:45	09/15/10 09:40
T001-1466-100914-SW-14-1	1009034-10	Liquid	9/14/10 9:30	09/15/10 09:40
T001-SV231-100914-SW-01-1	1009034-11	Liquid	9/14/10 15:54	09/15/10 09:40



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DOSS by LC/MS/MS

Lab ID: 1009034-01

Station ID: T008-R603-100914-SW-09-1

Batch: B0I1601

Date Collected: 09/14/10

Sample Type: Liquid

Sample Volume: 30 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	127		99.2	50-150	09/17/10	09/21/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diocetyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	09/17/10	09/21/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.



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DOSS by LC/MS/MS

Lab ID: 1009034-02

Station ID: T008-R603-100914-SW-17-1

Batch: B0I1601

Date Collected: 09/14/10

Sample Type: Liquid

Sample Volume: 26 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	135		91.1	50-150	09/17/10	09/21/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	09/17/10	09/21/10

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DOSS by LC/MS/MS

Lab ID: 1009034-03

Station ID: T008-R604-100914-SW-11-1

Batch: B0I1601

Date Collected: 09/14/10

Sample Type: Liquid

Sample Volume: 22 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	180		103	50-150	09/17/10	09/21/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		19.5	1	09/17/10	09/21/10

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DOSS by LC/MS/MS

Lab ID: 1009034-04

Station ID: T008-R604-100914-SW-21-1

Batch: B0I1601

Date Collected: 09/14/10

Sample Type: Liquid

Sample Volume: 23 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	158		94.1	50-150	09/17/10	09/21/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	09/17/10	09/21/10

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DOSS by LC/MS/MS

Lab ID: 1009034-05

Station ID: T008-R607-100914-SW-12-1

Batch: B0I1601

Date Collected: 09/14/10

Sample Type: Liquid

Sample Volume: 21 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	176		95.9	50-150	09/17/10	09/21/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	09/17/10	09/21/10

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DOSS by LC/MS/MS

Lab ID: 1009034-06

Station ID: T008-R607-100914-SW-24-1

Batch: B0I1601

Date Collected: 09/14/10

Sample Type: Liquid

Sample Volume: 20 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	180		93.6	50-150	09/17/10	09/21/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		19.5	1	09/17/10	09/21/10

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DOSS by LC/MS/MS

Lab ID: 1009034-07

Station ID: T001-1462-100914-SW-08-1

Batch: B0I1601

Date Collected: 09/14/10

Sample Type: Liquid

Sample Volume: 20 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	177		91.7	50-150	09/17/10	09/21/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	09/17/10	09/21/10

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DOSS by LC/MS/MS

Lab ID: 1009034-08

Station ID: T001-1462-100914-SW-14-1

Batch: B0I1601

Date Collected: 09/14/10

Sample Type: Liquid

Sample Volume: 19 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	194		95.8	50-150	09/17/10	09/21/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	09/17/10	09/21/10

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DOSS by LC/MS/MS

Lab ID: 1009034-09

Station ID: T001-1466-100914-SW-08-1

Batch: B0I1601

Date Collected: 09/14/10

Sample Type: Liquid

Sample Volume: 20 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	203		105	50-150	09/17/10	09/21/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	09/17/10	09/21/10

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DOSS by LC/MS/MS

Lab ID: 1009034-10

Station ID: T001-1466-100914-SW-14-1

Batch: B0I1601

Date Collected: 09/14/10

Sample Type: Liquid

Sample Volume: 20 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	182		94.2	50-150	09/17/10	09/21/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	09/17/10	09/21/10

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DOSS by LC/MS/MS

Lab ID: 1009034-11

Station ID: T001-SV231-100914-SW-01-1

Batch: B0I1601

Date Collected: 09/14/10

Sample Type: Liquid

Sample Volume: 20 ml

Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
<i>Surr: DOSS-D34</i>	189		98.1	50-150	09/17/10	09/21/10

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Diethyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	09/17/10	09/21/10

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DOSS by LC/MS/MS - Quality Control

Batch: B0I1601

Sample Type: Liquid

Blank (B0I1601-BLK1)

Prepared: 9/17/2010 Analyzed: 9/21/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: DOSS-D34</i>	196		193	102	50-150

Blank (B0I1601-BLK1)

Prepared: 9/17/2010 Analyzed: 9/21/2010

Targets

ANALYTE	Result µg/l	Analyte Reporting Qualifiers Limit
Diocetyl sulfosuccinate, sodium salt	U	20.0

LCS (B0I1601-BS1)

Prepared: 9/17/2010 Analyzed: 9/21/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC %REC	%REC Limits
<i>Surr: DOSS-D34</i>	199		193	103	50-150

LCS (B0I1601-BS1)

Prepared: 9/17/2010 Analyzed: 9/21/2010

Targets

ANALYTE	Result µg/l	Analyte Reporting Qualifiers Limit	Spike Level	%REC %REC	%REC Limits
Diocetyl sulfosuccinate, sodium salt	97.3	20.0	94.9	103	50-150



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DOSS by LC/MS/MS - Quality Control

Batch: B0I1601

Sample Type: Liquid

Matrix Spike (B0I1601-MS1)

Source: 1009030-02

Prepared: 9/17/2010 Analyzed: 9/21/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	170		183	92.9 50-150

Matrix Spike (B0I1601-MS1)

Source: 1009030-02

Prepared: 9/17/2010 Analyzed: 9/21/2010

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits
Diocetyl sulfosuccinate, sodium salt	91.6		20.0	90.4	101	50-150

Matrix Spike (B0I1601-MS2)

Source: 1009034-02

Prepared: 9/17/2010 Analyzed: 9/21/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	137		133	103 50-150

Matrix Spike (B0I1601-MS2)

Source: 1009034-02

Prepared: 9/17/2010 Analyzed: 9/21/2010

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits
Diocetyl sulfosuccinate, sodium salt	61.4		20.0	65.4	93.8	50-150



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DOSS by LC/MS/MS - Quality Control

Batch: B0I1601

Sample Type: Liquid

Matrix Spike (B0I1601-MS3)

Source: 1009034-11

Prepared: 9/17/2010 Analyzed: 9/21/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	198		183	108 50-150

Matrix Spike (B0I1601-MS3)

Source: 1009034-11

Prepared: 9/17/2010 Analyzed: 9/21/2010

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits
Diocetyl sulfosuccinate, sodium salt	91.2		20.0	90.4		101 50-150

Matrix Spike Dup (B0I1601-MSD1)

Source: 1009030-02

Prepared: 9/17/2010 Analyzed: 9/21/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	215		227	94.7 50-150

Matrix Spike Dup (B0I1601-MSD1)

Source: 1009030-02

Prepared: 9/17/2010 Analyzed: 9/21/2010

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD RPD Limit
Diocetyl sulfosuccinate, sodium salt	109		20.0	112		97.6 50-150	3.73 30



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DOSS by LC/MS/MS - Quality Control

Batch: B0I1601

Sample Type: Liquid

Matrix Spike Dup (B0I1601-MSD2)

Source: 1009034-02

Prepared: 9/17/2010 Analyzed: 9/21/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	140		148	94.5 50-150

Matrix Spike Dup (B0I1601-MSD2)

Source: 1009034-02

Prepared: 9/17/2010 Analyzed: 9/21/2010

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD RPD Limit
Diocetyl sulfosuccinate, sodium salt	72.3		20.0	73.0		99.1 50-150	5.51 30

Matrix Spike Dup (B0I1601-MSD3)

Source: 1009034-11

Prepared: 9/17/2010 Analyzed: 9/21/2010

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC Limits
<i>Surr: DOSS-D34</i>	171		183	93.4 50-150

Matrix Spike Dup (B0I1601-MSD3)

Source: 1009034-11

Prepared: 9/17/2010 Analyzed: 9/21/2010

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC Limits	RPD RPD Limit
Diocetyl sulfosuccinate, sodium salt	89.6		19.5	90.4		99.2 50-150	1.78 30



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Page 1 of 1

CHAIN OF CUSTODY RECORD

R05_Deepwater_Grand_Isle

No: T0033-100403-20100914-05

Attilino:
Lab: U.S. EPA Region 6 Laboratory
Lab Phone: 281-983-2137

Contact: Kristie Warr
Phone: 713 985 6636

Lab #	Sample #	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative	MS/MSD
T008-R603-100914-SW-09-1		DOSS	Surface Water	Grab	9/14/2010	11:00	2	20 ml VOA	4 C	N
T008-R603-100914-SW-17-1		DOSS	Surface Water	Grab	9/14/2010	10:29	6	20 ml VOA	4 C	Y
T008-R604-100914-SW-11-1		DOSS	Surface Water	Grab	9/14/2010	11:48	2	20 ml VOA	4 C	N
T008-R604-100914-SW-21-1		DOSS	Surface Water	Grab	9/14/2010	11:48	2	20 ml VOA	4 C	N
T008-R607-100914-SW-12-1		DOSS	Surface Water	Grab	9/14/2010	15:10	2	20 ml VOA	4 C	N
T008-R607-100914-SW-24-1		DOSS	Surface Water	Grab	9/14/2010	14:48	2	20 ml VOA	4 C	N

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	Jeffrey H. 9-14-10	9-14-10	Jeffrey H. 9-14-10	9-14-10	10:20		Jeffrey H. 9-14-10	9-14-10	Jeffrey H. 9-14-10	9-14-10	9:40
	Jeffrey H. 9-14-10	9-14-10	Jeffrey H. 9-14-10	9-14-10	23:47		Jeffrey H. 9-14-10	9-14-10	Jeffrey H. 9-14-10	9-14-10	9:40
	Jeffrey H. 9-14-10	9-14-10	Jeffrey H. 9-14-10	9-14-10	05:49		Jeffrey H. 9-14-10	9-14-10	Jeffrey H. 9-14-10	9-14-10	9:40
	Jeffrey H. 9-14-10	9-14-10	Jeffrey H. 9-14-10	9-14-10	9:24		Jeffrey H. 9-14-10	9-14-10	Jeffrey H. 9-14-10	9-14-10	9:40

Sample Temp: 1°C



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Notes and Definitions

A	This sample was extracted at a single acid pH.
HTS	Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.
AES	Atomic Emission Spectrometer
CVAA	Cold Vapor Atomic Absorption
ECD	Electron Capture Detector
GC	Gas Chromatograph
GFAA	Graphite Furnace Atomic Absorption
ICP	Inductively Coupled Plasma
MS	Mass Spectrometer
NA	Not Applicable
NPD	Nitrogen Phosphorous Detector
NR	Not Reported
TCLP	Toxicity Characteristic Leaching Procedure
U	Undetected
#	Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.